

WHAT IS CLAIMED IS:

1. A preparation method for inductance element, comprising the following steps:
- prepare a substrate;
- prepare at least one coil on said substrate; said at least one coil having an external side;
- 5 prepare a conductive material to connect the external side of said at least one coil to function as a plating electrode; and
- form a multileveled multiple-layered magnetic structure on said at least one coil.
- wherein material for said multiple-layered magnetic structure comprises a soft magnetic material; and
- 10 wherein said multileveled magnetic structure is prepared through intermittent plating.
2. The method according to claim 1 wherein said at least one coil is a wound enameled wire coil, a planar coil or a coil formed on a printed circuit board
3. The method according to claim 1, wherein said conductive material is metalized such that said multiple-layered magnetic structure may be developed on said at least one coil.
- 15 4. The method according to claim 1 wherein said soft magnetic material comprises a 21% Permalloy alloy or a super Permalloy.
5. An inductance element prepared according to anyone of claims 1-4.

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